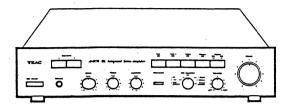
## TEAC



## **SERVICE MANUAL**

# A-X55

**DC Integrated Stereo Amplifier** 

#### NOTES

- 1. In this manual, 0 dB is referenced to 1V.
- 2. A Parts marked with this sign are safety critical components. They must always be replaced with identical components refer to the appropriate parts list and ensure exact replacements.
- 3. PC boards shown are viewed from foil side.

#### 1 SPECIFICATIONS

Type DC Integrated Stereo Amplifier

Rated Output Power

(Both Channels, 8 ohms)

60W + 60W (1kHz, 0.03% T.H.D.)

55W + 55W (20Hz ~ 20kHz, 0.05% T.H.D.)

Total Harmonic Distortion

0.05% (20Hz ~ 20kHz, at 55W + 55W Output Power)

Output Bandwidth

IHF, -3dB, 10Hz ~ 50KHz

Frequency Response

TUNER, CD/AUX, TAPE 1, 2, to SP out 5Hz, 40kHz +0, -3dB

PHONO to REC OUT, 20Hz~20kHz±0.5dB (RIAA)

Input Sensitivity

PHONO MC 0.24uV/100 ohms

PHONO MM 2.7mV/47K ohms

TUNER, CD/AUX, TAPE 1, 2, 150mV/47k ohms

Rated Output Voltage/Impedance

TAPE REC 1, 2, 150mV/47k ohms

Signal-to-Noise Ratio

(IHF A Network, short circuit)

PHONO MC 65dB

PHONO MM 75dB

TUNER, CD/AUX, TAPE 1, 2, 94dB

Tone Control

Bass  $\pm 12dB$ , 100Hz

Treble ±12dB, 10kHz

High Filter 10kHz, -6dB

Power Requirements

100/120/220/240 V AC 50/60 Hz, 240W (General Export Model)

220V AC 50Hz, 220W (Europe Model)

240V AC 50Hz, 240W (U.K./AUS. Model)

Dimensions (W×H×D)

435 × 80 × 295mm (171/6" × 33/16" × 115/6")

Weight 7.6kg (16.72 lbs) net

Improvements may result in specification or feature changes without notice

#### 2 ADJUSTMENT LOCATION

#### 1-1 DC BALANCE CHECK

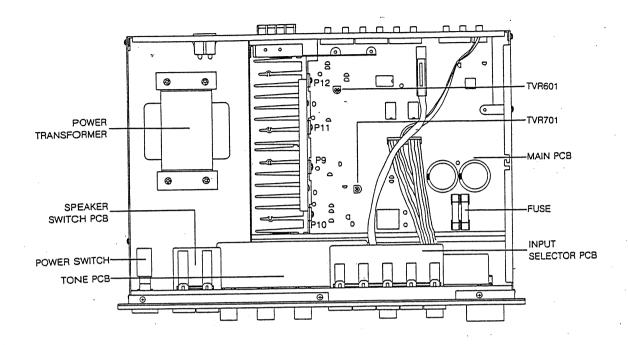
- 1. Connect the DC voltmeter to SPEAKERS A terminal.
- 2. Depress POWER switch to ON.
- 3. Confirm the DC voltmeter indication within 0 V  $\pm$  20mV.

#### 1-2 IDLING CURRENT CHECK

- 1. Connect the DC voltmeter between P9 to P10 and P11 to P12.
- Confirm the DC voltmeter indication within 15mV when POWER is ON after 10 seconds.
- 3. If the DC voltmeter indicates over 25mV adjust the TVR601 for LEFT channel or adjust the TVR701 for RIGHT channel on the MAIN PCB.
- 4. After the above procedures, allow 10 minites for the amplifier to warm up completely.

#### 1-3 REALY OPERATION CHECK

- 1. Apply 1kHz/150mV (-16.5dB) to the CD/AUX terminal.
- Adjust the VOLUME control so that output voltage is 10V at the SPEAKER terminal.
- 3. Shortcircuit the SPEAKER terminals between + and so that the relay RY1 break immediately.

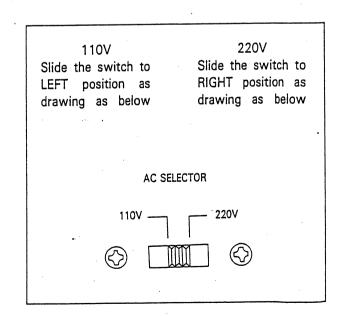


## **3 VOLTAGE CONVERSION**

(FOR GENERAL EXPORT MODELS ONLY)

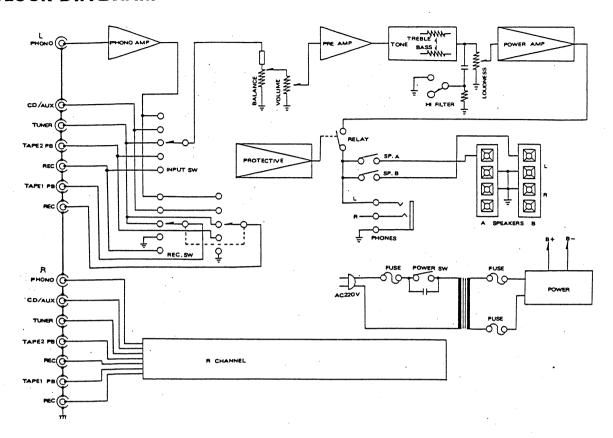
#### **AC VOLTAGE SELECTION**

This unit operates on 110 volts or 220 volts AC. Before connecting the power cord to your AC outlet, make sure that the setting position of this switch matches your line voltage. If not, it must be set to your voltage in accordance with the following direction.

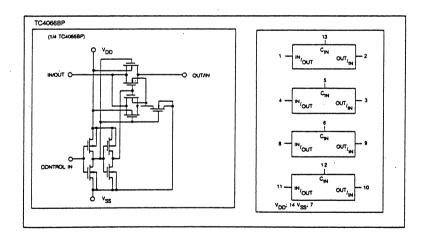


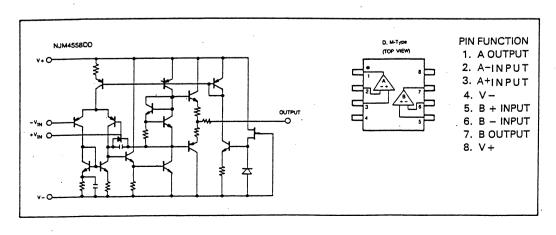
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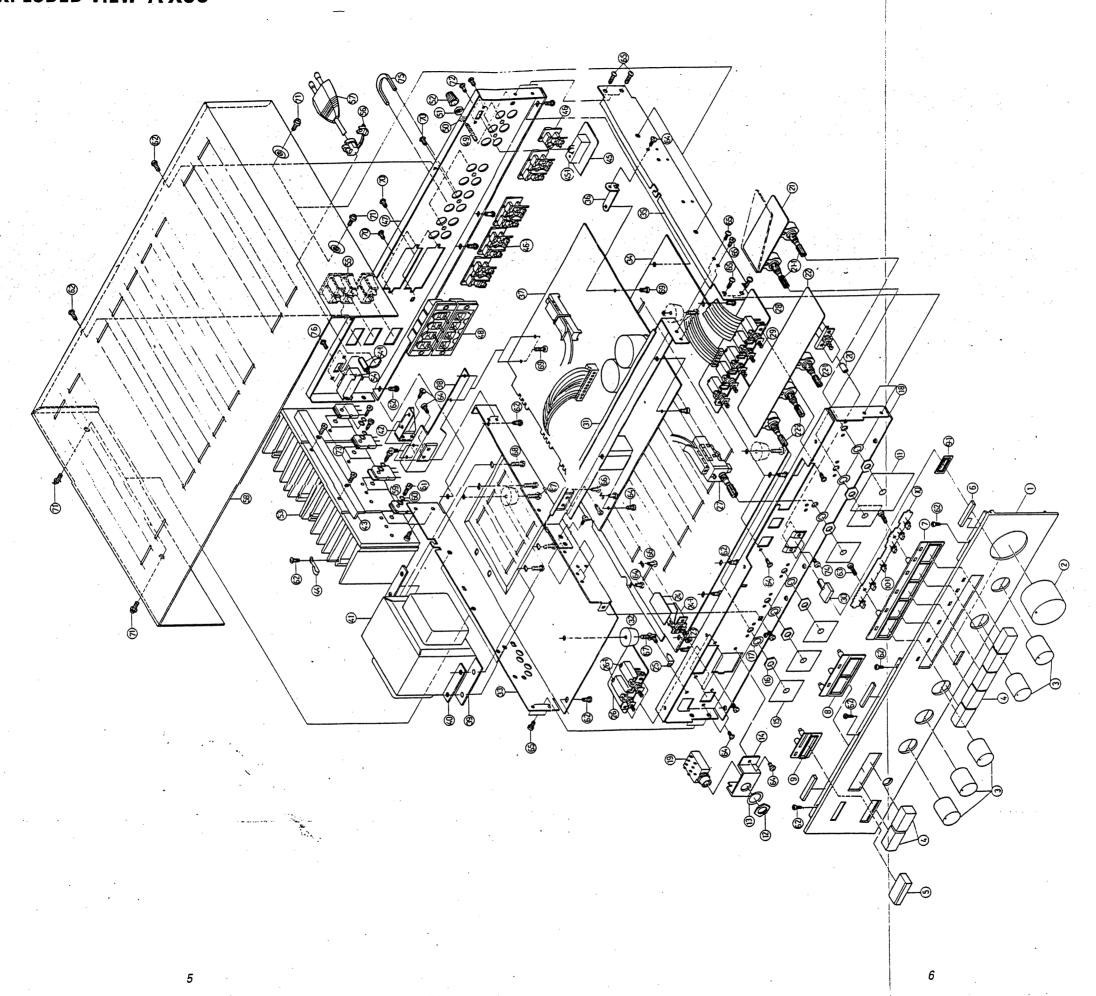
### **4 BLOCK DIAGRAM**



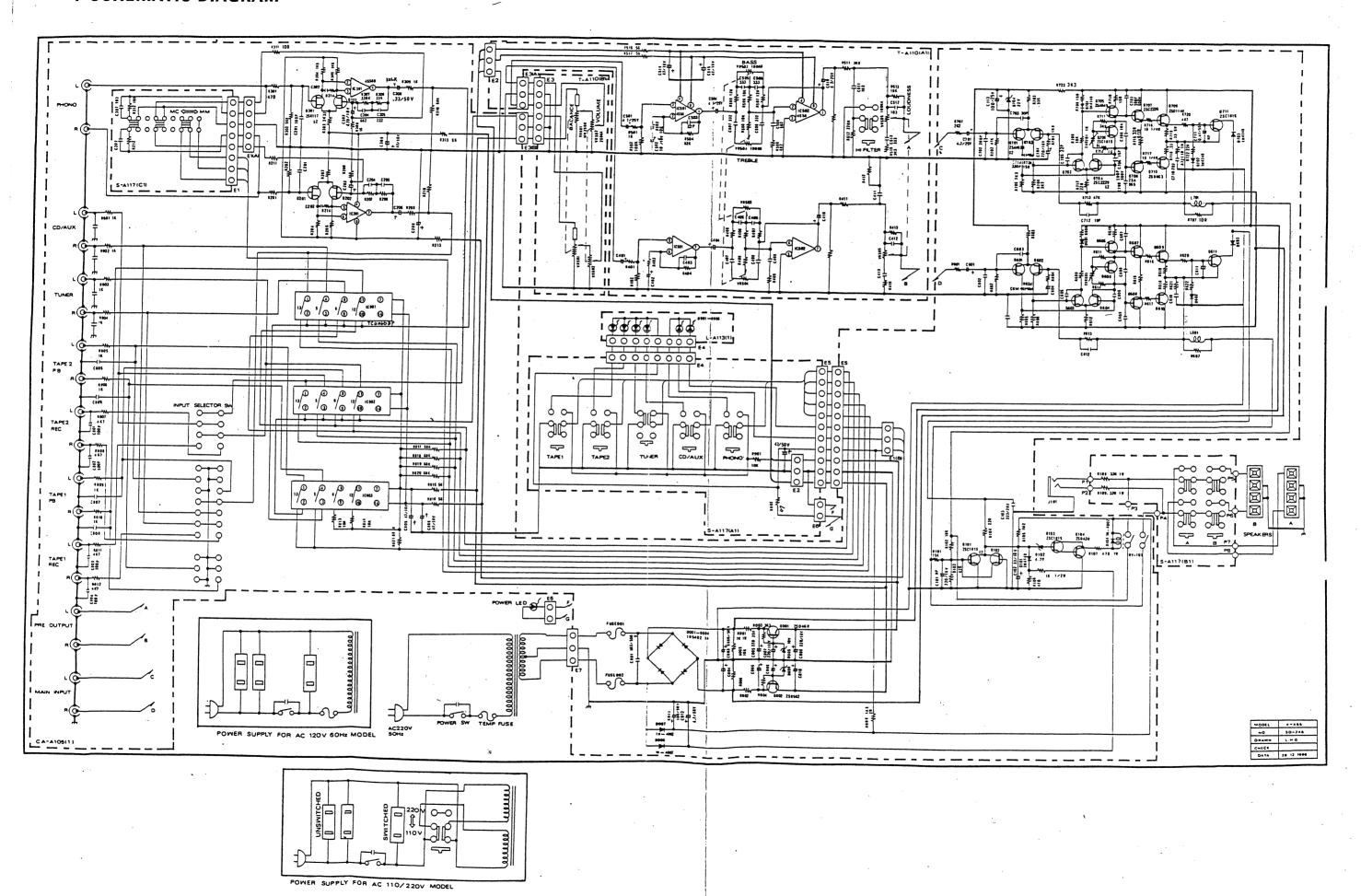
## **5 IC BLOCK DIAGRAM**







#### 7 SCHEMATIC DIAGRAM



## 8 EXPLODED VIEW AND PARTS LIST

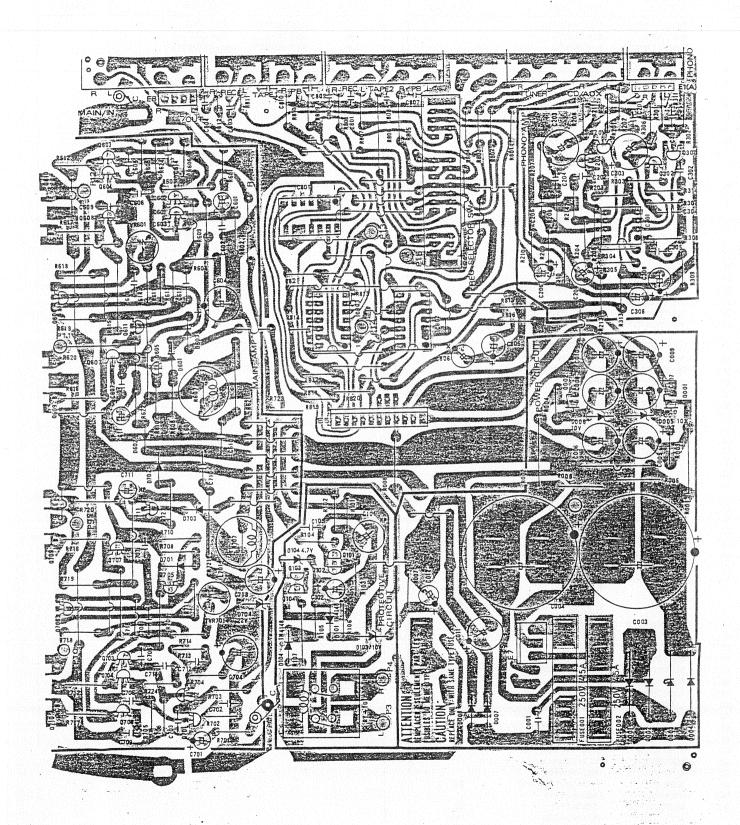
#### EXPLODED VIEW

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10. PCBL 10-113A-16   LED PCB LA-113A-11   Indication LED 2x 5 Green   Indication LED				
10-1		-		
11. CL705005005*6 Fet D-0303/A Nut M12 12. Nut M12 13. Wishber 12.10 14. CHAC*0495CA2D Phone Jack Holder C-495 15. CL702802825*2 Pet D-0301A Nut M7 x 0.75 18. CHAC*0907X554 Front Chassis C-907 19. EIRML2306039*3 Phone Jack H1004-04D 20. STAN*0213**8 Pet Pots A-213 21. PCBT*0A110824 PB The Pots A-213 21. PCBT*0A110824 PB TA-1100621 21-12. RVR100X18A211 PR 25CAX x x 2 x 5x K162800218 VR MX150X x 2 x 2 x K162A0A046 PCB T-A1100621 22.1. RVR100X18A211 PR 25CAX x x 2 x 5x K162A0A046 PCB T-A110A22 22.1. RVR100X25BEZ7 VR 100X8 x 2 x 2 x K162A0A046 PCB T-A110A21 22.2. RVR100X25BEZ7 VR 100X8 x 2 x 2 x K162A0A047 PCB T-A110A22 22.1. RVR100X25BEZ7 VR 100X8 x 2 x 2 x K162A0A048 PCB T-A110A21 23. FBW04910010*9 Insulation Washer 4.20 x 8 PCB S-A517A 24.1. PWSSE80213*1*1 Pw Swr6wSixth SDL-8IP(TV3) 25. SDY54030***1 26. PCBS*0A117824 PCB S-A117/A2 26. PCBS*0A117824 PCB S-A117/A2 27. RJSSUF51AE188 Push Swritch SPUF21CE11 28. PBSSUF51AE188 Push Swritch SPUF21CE11 29. PHSSUF51AE188 Push Swritch SPUF21CE11 29. PHSSUF51AE188 Push Swritch SPUF21CE11 20. RWR100028*0**0 Push Kook K9-0928 21. CHAC*05778A25 Aux Holder C-577 22. FIF*0018***1 Fort Classis C-487 23. CHAC*0489CA25 Bottom Chassis C-488 24. CHAC*0496CA25 Main PCB CA-A105(2) 24. CHAC*0575GA24 Heat Sink Holder C-578 25. CHAC*0575GA24 Heat Sink Holder C-578 26. CHAC*0496CA29 Holder C-584 27. CHAC*0496CA29 Holder C-584 28. CHAC*0496CA29 Holder C-584 29. CHAC*0575GA24 PRES Sink Holder C-575 29. Transformer EUR UK Transformer EUR SUR WASHER Sink Holder C-575 29. CHAC*0496CA29 Holder C-584 20. CHAC*0496CA29 Holder C-584 20. CHAC*0496CA26 PRES Swrich POS28C-PA6 20. CHAC*0496CA26 PRES Swrich POS28C-PA6 21. CHAC*0496CA26 PRES Swrich POS28C-PA6 22. CHAC*0496CA26 PRES Swrich POS28C-PA6 23. SLSPOS2CPA63 Side Swrich POS28C-PA6 24. CHAC*0496CA26 PRES Swrich POS28C-PA6 25. SLSPOS2CPA63 Side Swrich POS28C-PA6 26. CLP8*0007***5 Subario Washer Sid	1			
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14. CHAC*0495CA20 Phone Jack Holder C-495 15. CLT02802825*2 Flet D-0/31A Nut M7 X D. 75 18. CHAC*0907X554 Flott Chassis C-907 19. EJKHL2306038*3 Phone Jack H1084-0-40 20. STNA*0213***8 Platefine Flow A-213 21. PCST*0A110824 PD B-TA110821 21-1. RVR100K18A211 VR 250KA x 2 x 25 KA162800218 21-1. RVR100K258C02 VR NMX50K x 2 x 25 K162A0A046 22. PCST*0A110A24 PCB T-A110A21 21-2. RVR100K258E27 VR 100K8 x 2 x 25 K162A0A046 22.1. RVR100K258E27 VR 100K8 x 2 x 25 K162A0A046 22.1. RVR100K258E27 VR 100K8 x 2 x 25 K162A0B311 23. FEW04010010*9 Insulation Washer 4.20 x 8 24. PCSS*0A5174 C PCB S-A517A 24-1. PWSSE8213**1 25. SUS*54030***1 VR 403 30 26. PCSS*0A117824 PCS S-A117820 26. PCSS*0A117824 PCS S-A117A21 27. RJSESA23328*1 Remote Switch ESA-33226 28. PBCS*0A117A24 PCS S-A117A21 29. PMSSUFE1AE18 PASS Witch SPUF1AE18 30. KMBRT00928**0 PCS S-A117A21 29. PMSSUFE1AE18 PASS Witch SPUF1AE18 30. KMBRT00928**0 Aux Holder C-577 31. CHAC*05778A25 32. CHAC*05846A22 B Totor Chasin IBØ x 10m/m 33. CHAC*0487CA21 PCS CASA P				
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42. CHAC*0494CA29 Heat Sink Holder C-494 43. CHAC*0498CA26 L Holder C-498 44. CLP**0000***1 Weld 3.2Ø 45. PCBS*0A117C24 PCB S-A117[C2] 45-1. SLSP062BCPA63 Slide Switch P062BC-PA6 46. RCKYK00080290 2P RCA Jack 46-1. RCKYK000804P2 4P RCA Jack KC21-009 47. CHAC*0908X556 Rear Panel C-908 48. SPKPT0104LY*4 Speaker Terminal PT-104L-Y 49. SCE0M0503*CE7 Ground Screw E-176 50. SLSESA26142*4 Slide Switch ESA-30306B 52. LED0500200RS* LED 2x 5 Orange Red 53. RAPH*0043***3 Heat Sink H-043A 54. SLSP062BCPA63 Slide Switch P062BC0-PA6 (EX) 55. ACLRT0021***2 AC Outlet R7-21 EX ACKS*18519**8 AC Outlet S-16519 CND 56. CLPB*0007***5 Bushing 8-7 57. AC Cord SPT-2AWG 18 x 2C (POLARZED) USA, CND AC Cord CEE x 2C AC Cord SS 6500 EUR UK AC Cord SS 6500 EUR UK 58. CHAC*0490CA21 Upper Cover C-490 59. F8W04010010*9 Insulation Washer 3.2Ø				
43. CHAC*0498CA26 L Holder C-498  44. CLP**0000***1 Weld 3.2Ø  45. PCBS*0A117C24 PCB S-A117(C2)  45-1. SLSP062BCPA63 Slide Switch P062BC-PA6  46. RCKYK00080290 2P RCA Jack  46-1. RCKYK000804P2 4P RCA Jack KC21-009  47. CHAC*0908X556 Rear Panel C-908  48. SPKPT0104LY*4 Speaker Terminal PT-104L-Y  49. SCE0M0503*CE7 Ground Screw E-176  50. SLSESA26142*4 Slide Switch ESA-26142  51. BLTSW30306B*9 Remove Wire ESA-30306B  52. LED0500200RS*  53. RAPH*0043***3 Heat Sink H-043A  54. SLSP062BCPA63 Slide Switch P062BC0-PA6 (EX)  55. ACLRT0021***2 AC Outlet R7-21 EX  ACKS*16519**8 AC Outlet S-16519 CND  56. CLPB*0007***5 Bushing B-7  57. AC Cord SPT-2AWG 18 × 2C (POLARZED)  AC Cord CEE × 2C AC Cord SS 6500 EUR UK  AC Cord SS 6500 EUR UK  58. CHAC*0490CA21 Upper Cover C-490  Insulation Washer 3.2Ø	1		***************************************	EX
44. — CLP**0000***1 Weld 3.2Ø 45. PCBS*0A117C24 PCB S-A117(C2) 45-1. SLSP062BCPA63 Side Switch P062BC-PA6 46. RCKYK00080290 2P RCA Jack 46-1. RCKYK00904P2 4P RCA Jack KC21-009 47. CHAC*0908X556 Rear Panel C-908 48. SPKPT0104LY*4 Speaker Terminal PT-104L-Y 49. SCE0M0503*CE7 Ground Screw E-176 50. SLSESA26142*4 Side Switch ESA-26142 51. BLTSW30306B*9 Remove Wire ESA-30306B 52. LED0500200RS* LED 2 x 5 Orange Red 53. RAPH*0043***3 Heat Sink H-043A 54. SLSP062BCPA63 Slide Switch P062BC0-PA6 (EX) 54-1. STNVC100180*1 Copper Post E-161 55. ACLRT0021***2 AC Outlet R7-21 EX ACKS*16519**8 AC Outlet S-16519 CND 56. CLPB*0007***5 Bushing 8-7 57. AC Cord SPT-2AWG 18 x 2C (P0LARZED) USA, CND AC Cord CEE x 2C EUR AC Cord CEE x 2C EUR CC CORD SAA AUS 58. CHAC*0490CA21 Upper Cover C-490 199. F8W04010010*9 Insulation Washer 3.2Ø	1			
45. PCBS*0A117C24 PCB S-A117(C2) 45-1. SLSP062BCPA63 Slide Switch P062BC-PA6 46. RCKYK00080290 2P RCA Jack 46-1. RCKYK00904P2 4P RCA Jack KC21-009 47. CHAC*0908X556 Rear Panel C-908 48. SPKPT0104LY*4 Speaker Terminal PT-104L-Y 49. SCE0M0503*CE7 Ground Screw E-176 50. SLSESA26142*4 Slide Switch ESA-26142 51. BLTSW30306B*9 Remove Wire ESA-30306B 52. LED0500200RS* LED 2×5 Orange Red 53. RAPH*0043***3 Heat Sink H-043A 54. SLSP062BCPA63 Slide Switch P062BC0-PA6 (EX) 54-1. STNVC100180*1 Copper Post E-161 55. ACLRT0021***2 AC Outlet R7-21 EX ACKS*16519**8 AC Outlet S-16519 CND 56. CLPB*0007***5 Bushing B-7 57. AC Cord SPT-2AWG 18×2C (POLARZED) USA, CND AC Cord CEE×2C EUR AC Cord CEE×2C EUR AC Cord SS 6500 EUR UK AC Cord SAA AUS 58. CHAC*0490CA21 Upper Cover C-490 199. F8W04010010*9 Insulation Washer 3.20				
45-1. SLSP062BCPA63 Slide Switch P062BC-PA6 46. RCKYK00080290 2P RCA Jack 46-1. RCKYK000904P2 4P RCA Jack KC21-009 47. CHAC*0908X556 Rear Panel C-908 48. SPKPT0104LY*4 Speaker Terminal PT-104L-Y 49. SCEOM0503*CE7 Ground Screw E-176 50. SLSESA26142*4 Slide Switch ESA-26142 51. BLTSW30306B*9 Remove Wire ESA-30306B 52. LED0500200RS* LED 2×5 Orange Red 53. RAPH*0043***3 Heat Sink H-043A 54. SLSP062BCPA63 Slide Switch P062BC0-PA6 (EX) 54-1. STNVC100180*1 Copper Post E-161 55. ACLRT0021***2 AC Outlet R7-21 EX ACK*16519**8 AC Outlet R7-21 EX ACK*16519**8 AC Outlet R7-21 EX ACK*16519**8 AC Outlet R7-21 EX AC Cord SPT-2AWG 18 × 2C (POLARZED) USA, CND AC Cord CEE × 2C EUR AC Cord SS6500 EUR UK AC Cord SAA AUS 58. CHAC*0490CA21 Upper Cover C-490 199. F8W04010010*9 Insulation Washer 3.2Ø	1			
46. RCKYK00080290 2P RCA Jack 46-1. RCKYK000904P2 4P RCA Jack KC21-009 47. CHAC*0908X556 Rear Panel C-908 48. SPKPT0104L*4 Speaker Terminal PT-104L-Y 49. SCE0M0503*CE7 Ground Screw E-176 50. SLSESA26142*4 Slide Switch ESA-26142 51. BLTSW303068*9 Remove Wire ESA-30306B 52. LED0500200RS* LED 2×5 Orange Red 53. RAPH*0043***3 Heat Sink H-043A 54. SLSP062BCPA63 Slide Switch P062BC0-PA6 (EX) 54-1. STNVC100180*1 Copper Post E-161 55. ACLRT0021***2 AC Outlet R7-21 EX ACKS*16519**8 AC Outlet R7-21 EX ACKS*16519**8 AC Outlet R7-21 EX AC Cord SPT-2AWG 18×2C EX AC Cord SPT-2AWG 18×2C EX AC Cord SPT-2AWG 18×2C EUR AC Cord SS 6500 EUR UK AC Cord SS 6500 EUR UK 58. CHAC*0490CA21 Upper Cover C-490 59. F8W04010010*9 Insulation Washer 3.2Ø		•		
47. CHAC*0908X556 Rear Panel C-908  48. SPKPT0104LY*4 Speaker Terminal PT-104L-Y  49. SCEOM0503*CE7 Ground Screw E-176  50. SLSESA26142*4 Slide Switch ESA-26142  51. BLTSW30306B*9 Remove Wire ESA-30306B  52. LED0500200RS* LED 2 x 5 0 range Red  53. RAPH*0043***3 Slide Switch P062BC0-PA6 (EX)  54. SLSP062BCPA63 Slide Switch P062BC0-PA6 (EX)  54. STNVC100180*1 Copper Post E-161  55. ACLRT0021***2 AC Outlet R7-21 EX  ACKS*16519**8 AC Outlet S-16519 CND  56. CLPB*0007***5 Bushing B-7  57. AC Cord SPT-2AWG 18 x 2C (P0LARZED) USA, CND  AC Cord CEE x 2C EUR  AC Cord SS 6500 EUR UK  AC Cord SS 6500 EUR UK  AC Cord SAA AUS  58. CHAC*0490CA21 Upper Cover C-490  Insulation Washer 3.2Ø	1			
48. SPKPT0104L*4 Speaker Terminal PT-104L-Y 49. SCEOM0503*CE7 Ground Screw E-176 50. SLSESA26142*4 Slide Switch ESA-26142 51. BLTSW30306B*9 Remove Wire ESA-30306B 52. LED0500200RS* LED 2x 5 0 range Red 53. RAPH*0043***3 Heat Sink H-043A 54. SLSP062BCPA63 Slide Switch P062BC0-PA6 (EX) 54-1. STNVC100180*1 Copper Post E-161 55. ACLRT0021***2 AC Outlet R7-21 EX ACKS*16519**8 AC Outlet S-16519 CND 56. CLPB*0007***5 Bushing B-7 57. AC Cord SPT-2AWG 18 x 2C (P0LARZED) USA, CND AC Cord CEE x 2C AC Cord SS 6500 EUR UK AC Cord SAA AUS 58. CHAC*0490CA21 Upper Cover C-490 59. F8W04010010*9 Insulation Washer 3.2Ø	46-1.			
49. SCEOM0503°CE7 Ground Screw E-176  50. SLSESA26142°4 Slide Switch ESA-26142  51. BLTSW30306B°9 Remove Wire ESA-30306B  52. LED0500200RS° LED 2 x 5 Orange Red  53. RAPH*0043***3 Heat Sink H-043A  54. SLSP062BCPA63 Slide Switch P062BC0-PA6 (EX)  55. ACLRT0021***2 AC Outlet R7-21 EX  ACKS*16519**8 AC Outlet S-16519 CND  56. CLPB*0007***5 Bushing B-7  AC Cord SPT-2AWG 18 x 2C EX  AC Cord SPT-2AWG 18 x 2C (POLARZED) USA, CND  AC Cord CEE x 2C EUR  AC Cord SAA AUS  58. CHAC*0490CA21 Upper Cover C-490  19. FBW04010010*9 Insulation Washer 3.2∅				
50. SLSESA26142*4 Slide Switch ESA-26142 51. BLTSW30306B*9 Remove Wire ESA-30306B 52. LED0500200RS* LED 2 x 5 Orange Red 53. RAPH*0043***3 Heat Sink H-043A 54. SLSP062BCPA63 Slide Switch P062BC0-PA6 (EX) 54-1. STNVC100180*1 Copper Post E-161 55. ACLRT0021***2 AC Outlet S-16519 CND 56. CLPB*0007***5 Bushing B-7 57. AC Cord SPT-2AWG 18 x 2C EX AC Cord SPT-2AWG 18 x 2C (POLARZED) USA, CND AC Cord CEE x 2C EUR AC Cord SAA AUS 58. CHAC*0490CA21 Upper Cover C-490 59. F8W04010010*9 Insulation Washer 3.2∅	1		-	
51. BLTSW30306B*9 Remove Wire ESA-30306B  52. LED0500200RS* LED 2×5 Orange Red  53. RAPH*0043***3 Heat Sink H-043A  54. SLSP062BCPA63 Slide Switch P062BC0-PA6 (EX)  54-1. STNVC100180*1 Copper Post E-161  55. ACLRT0021***2 AC Outlet R7-21 EX  ACKS*16519**8 AC Outlet R7-21 EX  ACKS*16519**8 AC Outlet S-16519 CND  56. CLPB*0007***5 Bushing B-7  57. AC Cord SPT-2AWG 18×2C EX  AC Cord SFT-2AWG 18×2C EX  AC Cord CEF×2C EUR  AC Cord CEF×2C EUR  AC Cord SAA AUS  58. CHAC*0490CA21 Upper Cover C-490  59. F8W04010010*9 Insulation Washer 3.2∅	1 .			
52. LED0500200RS* LED 2×5 Orange Red 53. RAPH*0043***3 Heat Sink H-043A 54. SLSP062BCPA63 Slide Switch P062BC0-PA6 (EX) 54-1. STNVC100180*1 Copper Post E-161 55. ACLRT0021***2 AC Outlet R7-21 EX	1			
53. RAPH*0043***3 Heat Sink H-043A  54. SLSP062BCPA63 Slide Switch P062BC0-PA6 (EX)  54-1. STNVC100180*1 Copper Post E-161  55. ACLRT0021***2 AC Outlet R7-21 EX  ACKS*18519**8 AC Outlet S-16519 CND  56. CLPB*0007***5 Bushing B-7  57. AC Cord SPT-2AWG 18 × 2C  (P0LARZED) USA, CND  AC Cord CEE × 2C  AC Cord SS 6500 EUR UK  AC Cord SS 6500 EUR UK  AC Cord SAA AUS  58. CHAC*0490CA21 Upper Cover C-490  59. F8W04010010*9 Insulation Washer 3.2Ø	ì			
54. SLSP062BCPA63 Slide Switch P062BC0-PA6 (EX)  54-1. STNVC100180*1 Copper Post E-161  55. ACLRT0021***2 AC Outlet R7-21 EX  ACKS*16519**8 AC Outlet S-16519 CND  56. CLP8*0007***5 Bushing 8-7  57. AC Cord SPT-2AWG 18 × 2C  (POLARZED) USA, CND  AC Cord CEE × 2C  AC Cord SS 6500 EUR  AC Cord SS 6500 EUR UK  AC Cord SAA AUS  58. CHAC*0490CA21 Upper Cover C-490  59. F8W04010010*9 Insulation Washer 3.2∅	1		-	
54-1. STNVC100180*1 Copper Post E-161 55. ACLRT0021***2 AC Outlet R7-21 EX	i e		· ·	(EX)
ACKS*16519**8 AC Outlet S-16519 CND  56. CLPB*0007***5 Bushing 8-7  57. AC Cord SPT-2AWG 18 × 2C EX  AC Cord SPT-2AWG 18 × 2C  (POLARZED) USA, CND  AC Cord CEE × 2C EUR  AC Cord S6 5500 EUR UK  AC Cord SAA AUS  58. CHAC*0490CA21 Upper Cover C-490  59. F8W04010010*9 Insulation Washer 3.2∅	54-1.			
56. CLPB*0007***5 Bushing B-7 57. AC Cord SPT-2AWG 18 × 2C EX AC Cord SPT-2AWG 18 × 2C (POLARZED) USA, CND AC Cord CEE × 2C EUR AC Cord S6 5500 EUR UK AC Cord SAA AUS  58. CHAC*0490CA21 Upper Cover C-490 59. F8W04010010*9 Insulation Washer 3.2∅	55.			
57. AC Cord SPT-2AWG 18 × 2C EX AC Cord SPT-2AWG 18 × 2C  (POLARZED) USA, CND  AC Cord CEE × 2C  AC Cord 8S 6500 EUR UK  AC Cord SAA  58. CHAC*0490CA21 Upper Cover C-490  59. F8W04010010*9 Insulation Washer 3.2∅				CND
AC Cord SPT-2AWG 18 x 2C  (POLARZED) USA, CND  AC Cord CEE x 2C EUR  AC Cord 8S 6500 EUR UK  AC Cord SAA AUS  58. CHAC*0490CA21 Upper Cover C-490  59. FBW04010010*9 Insulation Washer 3.2Ø	ľ	CLP8*0007***5		EV
(POLARZED) USA, CND	5/.			c۸
AC Cord CEE × 2C EUR AC Cord 8S 6500 EUR UK AC Cord SAA AUS  58. CHAC*0490CA21 Upper Cover C-490 59. FBW04010010*9 Insulation Washer 3.2♂				USA, CND
AC Cord 8S 6500 EUR UK AC Cord SAA AUS  58. CHAC*0490CA21 Upper Cover C-490  59. F8W04010010*9 Insulation Washer 3.2⊘			-	
AC Cord SAA AUS  58. CHAC*0490CA21 Upper Cover C-490  59. FBW04010010*9 Insulation Washer 3.2⊘			•	1
59. FBW04010010*9 Insulation Washer 3.20				AUS
	1	CHAC*0490CA21	• •	
ou. FTW03208005*7 Washer 30				
	60.	FTW03208005*7	Waster 30	

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
61.	SCECT030016*1	Screw CRTS 3×16	
62. 63.	SCECT3006BC*6 SCECM3006YC*9	Screw CRTS 3×6 Screw CRMS 3×6	
64.	SCECT3006YC*7	Screw CRTS 3×6	
65.	SCECT3006YC*7	Screw CRTS 3×6	
66. 67.	SCECT3508YC*9 SCECM4008BW*6	Screw CRTS 3.5 × 8 Screw CRWMS 4 × 8	
67. 68.	SCECM4010YS*5	Screw CRMS 4×10	
69.	SCECT3008BC*1	Screw CRTS 3×8	
70. 71.	SCECT0109BCP7 SCECM4006BC*2	Plastic Screw 1/8×9 Screw CRWMS 4×6	
71. 72.	SCECT26048C*1	Screw CRMS 2.6 × 4	
73.	SCECT3006*YC7	Screw CRTS 3×6	
74. 75.	SCECM3012YC*4 SDY32E*0037X8	Screw CRMS 3×12 "U" Jump Wire	
76.	SCECM3006BC*8	Screw CRTS 3×6	
77.	SCECT30088U*1 SCECT30588C*1	Slotted Head Screw CRTS 3×8 Screw CRTS 3.5×8	
78. 79.	TDA**0X35*38	Owner's Manual	
80.		Styrofoam PT-045	
81.		Inside carton Outside carton (Two in one)	
82.		Outside carton (1 wo in one)	
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## 9 PC BOARD AND PARTS LIST

9.1 MAIN AMP PCB CA-A105(2)



#### MAIN AMP PCB ASSY CA-A105(2)

REF. NO.	PARTS NO.	DESCRIPTION
	PCBCAOA 105°24	MAIN AMP PCB ASSY MAIN AMP PCB
	PCBCAOA 105*24	• •
		C'S-
IC301	ICCNJ04558DD6	NJM4558DD TC4066BP
IC801-IC803	ICCCD04066AE9	SISTORS-
	-TRAN	SISTORS-
Q001	TRSSD0468C**6	2SD468
Q002	TRSSB0562C**8 TRSSC1815GR*4	2SB562 2SC1815GR
Q101, Q102 Q103	TRSSC1815BL*1	2SC1815BL
Q104	TRSSD0438F**0	2SD438
Q201, Q301	TRSSKO117BL*7	2SK117BL 2SK117BL
Q202, Q302 Q601, Q701	TRSSK0117BL*7 TRSSA1038E**3	2SA1038
Q602, Q702	TRSSA1038E**3	2SA1038
Q603, Q703	TRSSC2229Y**3	2SC2229Y
Q604, Q704	TRSSC2229Y**3 TRSSA0949Y**4	2SC2229Y - 2SA949Y
Q605, Q705 Q606, Q706	TRSSC1815BL*1	2SC1815BL
Q607, Q707	TRSSC2235Y**9	2SC2235Y
Q608, Q708	TRSSA0965Y**2	2SA965Y
Q609, Q709 Q610, Q710	TRSSD11480**5 TRSSB08630**1	2SD1148 2SB863
Q611, Q711	TRSSC1815GR*4	2SC1815GR
2277, 2777	-DI	ODES-
2004 2004	DIDIN5402***1	1N5402
D001, D004 D005, D006	DID010VOW5**2	10V 0.5W
D007, D008	DIDIN4002***2	1N4002
D101	DIDIN4148***8	1N4148
D102	DID04V70W5**9 DIDIN4002***2	4.7V 0.5W 1N4002
D104 D601-D603	DIDIN4148***8	1N4148
D701-D703	DIDIN4148***8	1N4148
D704	DID022VOW5**7	22V 0.5W
e .		RESISTORS-
- 5		±5% tolerance and 1/4W
R003, R004	CBR03K30W4TJ4	3K3 ohm
R101, R102 R103	CBR015KOW4TJ0 CBR047KOW4TJ6	15K ohm 47K ohm
R104	CBR220ROW4TJ1	220 ohm
R105	CBROIM20W4TJ9	1M2 ohm
R201, R301	CBR022R0W4TJ8 CBR056K0W4TJ7	22 ohm 56K ohm
R202, R302 R206, R306	CBR001KOW4TJ7	1K ohm
R209, R309	CBR001KOW4TJ7	1K ohm
R210, R310	CBR068KOW4TJ1	68K ohm
R211, R311	CBR100R0W4TJ4 CBR056R0W4TJ2	100 ohm 56 ohm
R213, R313 R214, R314	CBR150ROW4TJ1	150 ohm
- R601, R701	CBR02K20W4TJ5	2K2 ohm
R602, R702	CBR047KOW4TJ6	47K ohm 33K ohm
R603, R703 R604, R704	CBR033K0W4TJ2 CBR01K80W4TJ1	33K ohm ·1K8 ohm
R605, R705	CBR03K30W4TJ4	3K3 ohm
R606, R706	CBRO3K30W4TJ4	3K3 ohm
R608, R708	CBR150R0W4TJ1 CBR010K0W4TJ8	150 ohm 10K ohm
R609, R709 R610, R710	CBR150R0W4TJ1	150 ohm
R611, R711	CBR03K90W4TJ6	3K9-ohm
R612, R712	CBR220R0W4TJ1	220 ohm
R613; R713 R614, R714	CBR047K0W4TJ6 CBR001K0W4TJ7	47K ohm 1K ohm
R616, R716	CBR010R0W4TJ3	10 ohm
R617, R717	CBR010R0W4TJ3	10 ohm
R620, R720	CBRO4K70W4TJ4	4K7 ohm
R622, R722 R723	CBRO22KOW4TJ2 CBRO3K30W4TJ4	22K ohm 3K3 ohm
R624, R724	CBR150R0W4TJ1	150 ohm
R801-R806	CBROO1KOW4TJ7	1K ohm
1 0007 0000	CBRO4K70W4TJ4	4K7 ohm
R807, R808	CDDOO1YOWAT 17	1K ohm
R809, R810	CBROO1KOW4TJ7 CBR47OROW4TJ1	1K ohm 470 ohm
1		

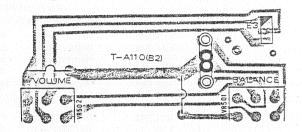
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	REF. NO.	PARTS NO.	DESCRIPTION	
	R607, R702	CBR010R0W4FJ3	10 ohm	
	R811, R812	CBR04K70W4FJ4	4K7 ohm	
	R813, R814	CBR068K0W4FJ1	68K ohm	
		All resistors are rated ±5	% tolerance and 1/2W	
	R005, R006	CBR010K0W2TJ6	10K ohm	*
	R008	CBR01K50W2TJ9	1K5 ohm	
		CBR001K0W2TJ5	1K ohm	
	R106	CBR001K0W2TJ1	1K ohm	
		All resistors are rated ±5	% tolerance and 1/3W	
	R615, R715	CBR330R0W3TJ2	330 ohm	
		-ETAL FILM R All resistors are rated ±5		
	R203, R303	PMR03K30W4TG5	3K3 ohm	
	R204, R304	PMR01K50W4TG1	1K5 ohm	
	R205, R305	PMR01K50W4TG1	1K5 ohm	
	R207, R307	PMR033K0W4TG3	33K ohm	
	R208. R308	PMR330K0W4TG9	330K ohm	
	,, <b>200</b> ,,,,000	All resistors are rate ±5	5% tolerance and 1W	
	R001, R002	MTR001K01WTJ8	1K ohm	
	R107	MTR470R01WTJ2	470 ohm	
	R621, R721	MTR010R01WTJ4	10 ohm	
		-CEMENT-FILLED FI All resistors are rate ±5		
	0010 0710			
	R618, R718 R619, R719	CMROR3305WTE9 CMROR3305WTE9	0.33 ohm 0.33 ohm	
	K619, K719			
		-САРСП	ORS-	
	C001	CRCOPO101KRZ1	Ceramic 0.01u	500V
	C003, C004	ELC06K8050R35	Elec. 6800u	50V
	C005, C006	ELC220U025R38	Elec. 220u	25V
	C007-C010	ELC220U016R37	Elec. 220u	16V
	C011	ELC100U050R31	Elec. 100u	50V
	C012	ELCO4U7050R54	Elec. 4.7u	50V KULR
	C101	ELC220U016R01	Bec. 220u Bec. 33u	16V NP 10V
	C102	ELC033U010R38 PECU022050RK3	Mylar 0.022K	104
	C103 C201, C301	CRC0100050RK5	Ceramic 100P	50V
	C202, C302	CRC0330050RK1	Céramic 330P	50V
	C203, C303	ELC470U016R37	Elec. 470u	16V
	C204, C304	PEC2000050RJ5	Mylar 0.002u	50V
	C205, C305	PECU022500RK3	Mylar 0.0068u	50V
	C206, C306	ELC0U33050R55	Elec. 0.33u	50V
ĺ	C208, C308	ELC047U016R37	Elec. 47u	16V
	C601, C701	ELC04U7025R35	Bec. 4.7u	25V
	C602, C702	CRC0200500RK5	Ceramic 200P	50V
	C604, C704	ELC220U016R37	Elec. 220u	16V
	C605, C705	CRC0022500RKO	Ceramic 22P	500V
	C606, C706	CRC0015500RK7	Ceramic 15P	500V 50V
	C607, C707	CRC0100050RK5	Ceramic 100P Ceramic 0.1u	50V
	C608, C708 C609, C709	PEC00U1050RK3 CRC0100050RK5	Ceramic 100P	50V
	C610, C710	PECU022050RK3	Mylar 0.022u	50V
	C611, C711	ELC0U47050R09	Elec. 0.47u	50V NP
	C612, C712	CRC0010500RK9	Ceramic 10P	500V
	C713	ELC100U025R30	Elec. 100P	· 25V
	C614, C714	CRC0330500RK4	Ceramic 330P	500V
	C801-C804	CRC0100050RK4	Ceramic 100P	50V
	C805, C806	ELC047U016R37	Elec. 47u	16V
	C807-C810	CRC0100050RK5	Ceramic 100P	50V
		-VARIABLE R	esistors-	
	TVR001, TVR701	TVR001K063HM1	60H 1K ohm	
		-COIL		
	L601, L701	CIL1851000186	18 1/2T	
		-MISCELLA		
		RCKYK000904P2	4P RCA Jack	
		CHAPC02023**5	2P RCA Jack	
	DV 101	CNT**514311P1	Wafer Connector 11P	
	RY-101	RLY24V5A2P2C1	Relay	
l		SLSESA26142*4 SDY43SQ1119*8	Slide Switch Pin 1 x 1 x 9	
		FUHFH0003***1	Fuse Holder	
		RAPH*0043***3	Heat Sink	
L		· · · · · ·		

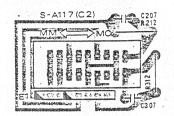
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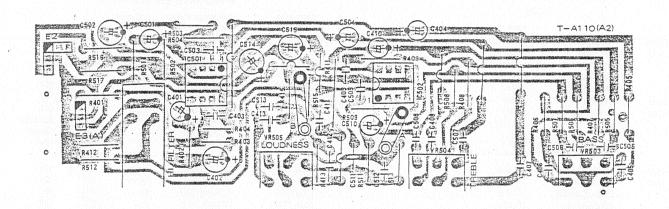
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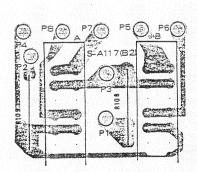
9.2 POWER SWITCH PCB S-A517A SWITCH PCB S-A117 (B2,C2) TONE AMP PCB T-A110(A2,B2) FUNCTION SWITCH PCB S-A117(A2) FUNCTION LED PCB L-A113(A1) POWER LED PCB L-A113(B1)

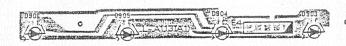






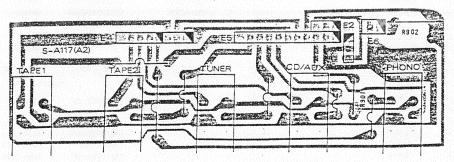












#### TONE AMP PCB ASSY T-A110(A2)

REF. NO.	PARTS NO.	DESCRIPT	ION	
	PCBT*0A110A24	TONE AMP	PCB ASSY	
	PCBT * 0A110A24	TONE AMP	PCB	
	-10	C'S-		
IC501	ICCNJ02043D*2 ·	NJM2043D		
IC502	ICCNJO4558DD6	NJM4558D		
		RESISTORS-	_	
	-CARBON All resistors are rated :		nd 1/AW	
D401 BC01	CBROO 1K0W4TJ7	1K ohm	110 17411	
R401, R501				
R402, R502	CBR100K0W4TJ9	100K ahm		
R403	CBRO10K0W4FJ8	10K ohm l		
R404	CBR082K0W4FJ5	82K ohm l	F Түр <del>е</del>	
R405, R505	CBR012K0W4TJ7	12K ohm		
R406, R506	CBR010K0W4TJ8	10K ohm		
R407, R507	CBRO12KOW4TJ7	12K ohm		
R408, R508	CBR010K0W4TJ8	10K ohm		
R409, R509	CBRO4K70W4TJ4	4K7 ohm		
R411, R511	CBR03K90W4TJ6	3K9 ohm		
R412, R512	CBR220K0W4TJ6	220K ohm		
R413, R513	CBR018KOW4TJ4	18K ohm		
R415, R515	CBR03K30W4TJ4	. 3K3 ohm		
R503	C8R010K0W4TJ8	10K ohm		
R504	CBR082K0W4TJ5	82K ohm		
	-CAPC	ITIORS-		
C401, C501	ELC04U7025R35	Elec.	4.7u	25V ·
C402, C502	ELC100U010R34	Elec.	100u	10V
C403, C503	CRC0010050RK4	Ceramic	10P -	50V
C404, C504	ELC04U7025R35	Elec.	4.7u	25V
C405, C505	PECU033050RJ2	Mylar -	0.033u	. 50V
C406, C506	PECU033050RJ2	Mylar	0.033u	50V
C407, C507	PEC3300050RJ8	Mylar	0.0033u	50V
C408, C508	PEC3300050RJ8	Mylar	0.0033u	50V
C409, C509	PEC4700050RJ6	Mylar	0.005u	50V
C410, C510	ELC04U7025R35	Elec.	4.7u	25V
C411, C511	PEC6800050RJ4	Mylar	0.0068u	50V
C412, C512	PECOUO1050RJ8	Mylar	0.01u	50V
C413, C513	PECU033050RJ2	Mylar	0.033u	50V
C514, C515	ELC047U016R37	Elec.	47u	16V
		RESISTORS-	****	
VR503, VR504	RVR100K25BE27	100KB×2		
VR505, VR504	RVR100K25BE27	100KA × 2		
		ANEOUS-		
	PHSSUF12AE157	Push Switch		
	PRL11002403P4		P× 110 m/m	
	FRE1 1002403F4	Counsciol 3	EXIIV M/M	

#### SWITCH PCB ASSY S-A117(B2)

REF. NO.	PARTS NO. DESCRIPTION	
	PCBS*0A117824	SWITCH PCB ASSY
	PCBS*0A117B24	SWITCH PCB
	-METAL FILM	RESISTORS-
R108, R109	MTR330R01WTJ4	330 ohm 1W
	PHSSUF21CE115	Push Switch

#### SWITCH PCB ASSY S-A117(C2)

REF. NO.	PARTS NO.	DESCRIPTI	ON	•
	PCBS*0A117C24	SWITCH PC	B ASSY	
	PCBS*0A117C24	SWITCH PC	В .	
•	-CARBON	RESISTORS-		
	All resistors are rated	£5% tolerance an	d 1/4W	
R212, R312	CBR100RGW4TJ4	100 ohm		
	-MISCELI	LANEOUS-		
C207, C307	PEC0U01050RJ8	Mylar	0.01u	50V
	PRL10002405P9	Connector	5P x 110	
	PRL17002403P7	Connector	3P×170	
	PC8S*0A117C24	Slide Switch		

#### FUNCTION LED PCB ASSY L-A113(A1)

REF. NO.	PARTS NO.	DESCRIPTION
	PCBL*0A113A26	FUNCTION LED PCB ASSY
	PC8L*0A113A26	FUNCTION LED PCB
D-901-D906	LED050020GS*7	LED 2 x 5 Green
	PRL11002403P4	Connector 3P x 110
	PRL10002405P9	Connector 5P×110
	GSKK801968**9	Washer

#### TONE AMP PCB ASSY T-A110(B2)

REF. NO.	PARTS NO.	DESCRIPTION			
	PCBT*0A110B24	TONE AMP PCB ASSY			
•	PCBT*0A110824	4 TONE AMP PCB			
	-VARIABLE	RESISTORS-			
VR501	RVR250K25MC20	MN250K x 2			
VR502	RVR100K18AZ11	250KA			

#### FUNCTION SWITCH PCB ASSY S-A117(A2)

REF. NO.	PARTS NO.	DESCRIPTION
	PCBS*0A117A24	FUNCTION SWITCH PCB ASSY
	PCBS*0A117A24	FUNCTION SWITCH PCB
	-CARBON	RESISTORS-
	All resistors are rated :	5% tolerance and 1/4W
R901	CBR010K0W4TJ8	10K ahm
R902	CBR047R0W4TJ8	47 ohm
	-MISCELI	ANEOUS-
	PHSSUF51AE185	Push Switch
	CNT**549408P7	Wafer Connector 8P
	PRL17002405P7	Connector 5P x 130
	PRL17002605P7	Connector 6P × 170
	SDY43SO1119*8	Pin 1×1×9

#### POWER LED PCB ASSY L-A113(B2)

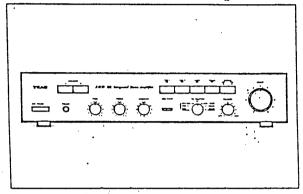
REF. NO.	PARTS NO.	DESCRIPTION
	PC8L*0A113826	POWER LED PCB ASSY
	PC8L*0A113B26	POWER LED PCB
	-MISCEL	LANEOUS-
	LED050020RS*7	LED 2×5 Red
	GSKK801948*5*	Washer
	SCECT2606YC*4	Screw CRTS 2.6 x 6

#### POWER SWITCH PCB ASSY S-A517A

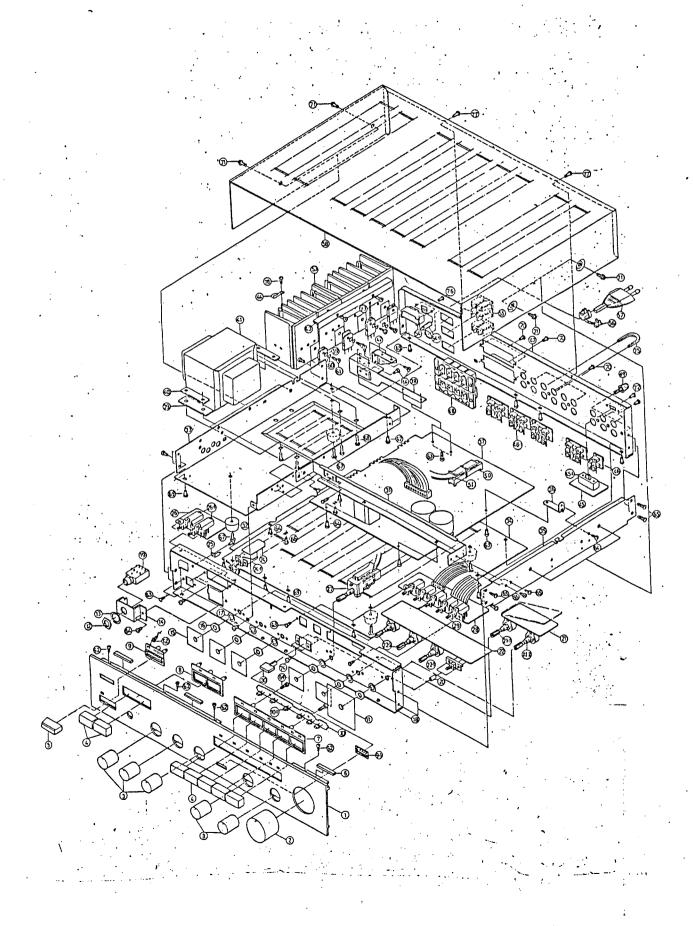
REF. NO.	PARTS NO.	DESCRIPT	ION	
	POWER SWITCH PCB	ASSY		
	· POWER SWITCH PCB			
	-MISCEL	LANEOUS-		•
	CRCOPO101KRZ1	Ceramic	0.01u	1000V
	PWSESB82131*1	Power Switch	:h	
	SCECT2606YC*4	Screw CRTS	2.6×6	

## Original

**DC** Integrated Stereo Amplifier



SERVICE MANUAL



## EXPLODED VIEW

	DARMS NO DESCRIPTION	REMARKS
RES. NO.	PARTS NO. DESCRIPTION	
1.	PNLAL0186X555 Front Panel L-186 KNBRT0169B**9 Knob KB-169BK	
2.		
3.	MMDN + 0 · + COD	
4.		
5.		
6.		
7.		
8.		
9.		
9-1.		
1 ()	PCBL*0A113A16 LED PCB L-A113(A1) LED050020GS*7 Indication LED 2x5 Green	
10-1		•
11.	CI.T05005005*6 Flet D-0032A	
<b>12.</b>	Nut MIZ	
$\stackrel{\frown}{=}$ 13.	Washer 12.10	
	CHAC*0495CA20 Phone Jack Holder C-495	
14. 15. 16.	CI.T02802825*2 Flet D-0031A	
<i>→</i> > 16.	/ Nut M/xU./5	
→ 17·	Washer $7.2  \emptyset$	
18.	CHAC*0907X554 Front Chassis C-907	
19.	EJKHL230603P3 Phone Jack HTJU64-04D	
20.	STNA*0213***8 Plastic Post A-213	. •
21.	PCBT*0A110B24 PCB T-A110(B2)	
21-1.	RVR100K18AZ11 VR 250KAX2X25 KA102B0B210	
21-2	RVR250K25MC20 VR MN25UKX2X25 K102A0A040	
22.	- annion 110024 PCR T-ALLULAZI	
22-1.	$\frac{1}{10000000000000000000000000000000000$	
22-2.		_
23.	FRW04010010*9 Insulation Washer 4.20 X	•
24.	pwses88213**1 Power Switch Sbl-Bir (110)	,
24-1.	CDV54030****1 Weld 3Ø	
25.	papa+0.117p24 PCR S-AII/(D4)	
26.	PURCHESIARISE Push Switch SPUFZICEII	
26-1.	PLCECA 23326*1 Remote Switch ESA-23326	
27.	PROS + 0.2 1 1 7 2 4 PCB S - A 1 1 7 (A2)	
28.	BUCCUES 1 AF 186 Push Switch SPUF 5 1 AE 18	
29.	KNBRT0092B**0 Push Knob KB-092B	
30.	GUACTOETTEN 26 Aux Holder C-5//	
31.	_ , 100-10m/m	•
32.		
33.		
34.	CHAC 0 10 2 0 10 1 0 1 0 1 0 1 0 1 0 1 0 1 0	
35.		
36.		
37.		
38.	CIMIC 90'	
39.		
40.	CHAC 03/304	
41.	CHAC*0497GA28 Transformer Holder C-300 CHAC*0494CA29 Heat Sink Holder C-494	
	CUAC*0494CA29 Heat Sink Holder C 131	
42.	CHAC*0498CA26 L Holder C-498	

RES. NO.	PARTS NO.	DESCRIPTION	REMARKS
44. 45. 45-1. 46. 46-1.	CLP**0000***1 PCBS*0A117C24 SLSP062BCPA63 RCKYK00080290 RCKYK000904P2	PCB S-A117(C2)	·
47. 48. 49.	CHAC*0908X556 SPKPT0104LY*4 SCEOM0503*CE7	Rear Panel C-908 Speaker Terminal PT-104L-Y Ground Screw E-176	·
50. 51. 52.	SLSESA26142*4 BLTSW30306B*9 LED0500200RS*	Slide Switch ESA-26142 Remove Wire ESA-30306B LED 2x5 Orange Red	•
53. 54. 54-1.	RAPH*0043***3 SLSP062BCPA63 STNVC100180*1 ACLRT0021***2	Heat Sink H-043A Slide Switch P062BC0-PA6 Copper Post E-161 AC Outlet R7-21	(EX)
55. 56.	ACKS*16519**8 CLPB*0007***5	AC Outlet S-16519	CND EX
		AC Cord SPT-2AWG 18x2C (POLARZED) AC Cord CEEx2C AC Cord BS 6500 AC Cord SAA	USA, CND EUR EUR UK AUS
58. 59. 60.	FBW04010010*9 FTW03208005*7 SCECT030016*1	Washer 3Ø · Screw CRTS 3x16	
62. 63. 64. 65. 66.	SCECT3006BC*6 SCECM3006YC*9 SCECT3006YC*7 SCECT3006YC*7 SCECT3508YC*9 SCECM4008BW*6	Screw CRMS 3x6 Screw CRTS 3x6 Screw CRTS 3x6 Screw CRTS 3.5x8 Screw CRWMS 4x8	•
68. 69. 70. 71. 72.	SCECM4010YS*5 SCECT3008BC*1 SCECT0109BCP7 SCECM4006BC*2 SCECT2604BC*1	Screw CRTS 3x8 Plastic Screw 1/8x9 Screw CRWMS 4x6 Screw CRMS 2.6x4	
73. 74. 75. 76. 77. 78.	SCECT3006*YC7 SCECM3012YC*4 SDY32E*0037X8 SCECM3006BC*8 SCECT3008BU*1 SCECT3058BC*1	Screw CRTS 3x6 Screw CRMS 3x12 "U" Jump Wire Screw CRTS 3x6 Slotted Head Screw CRTS 3x8 Screw CRTS 3.5x8	

MAIN AME	PCB	ASSY	CA-A	105	(2)
----------	-----	------	------	-----	-----

REF. NO.	PARTS NO.	DESCRIPTION	
	PCBCA0A105*24 PCBCA0A105*24	MAIN AMP PCB MAIN AMP PCB	ASSY
	-IC'S-		•
IC301 IC801-IC803	ICCNJ04558DD6 ICCCD04066AE9	NJM4558DD TC4066BP	
	-TRANSISTORS-		
Q001 Q002 Q101,Q102 Q103 Q104 Q201,Q301 Q202,Q302 Q601,Q701 Q602,Q702 Q603,Q703 Q604,Q704 Q605,Q705 Q606,Q706 Q606,Q707 Q608,Q708 Q609,Q709 Q610,Q710 Q611,Q711	TRSSD0468C**6 TRSSB0562C**8 TRSSC1815GR*4 TRSSC1815BL*1 TRSSD0438F**0 TRSSK0117BL*7 TRSSK0117BL*7 TRSSA1038E**3 TRSSA1038E**3 TRSSC2229Y**3 TRSSC2229Y**3 TRSSC2229Y**3 TRSSC2229Y**4 TRSSC1815BL*1 TRSSC2235Y**9 TRSSA0965Y**2 TRSSD11480**5 TRSSB08630**1 TRSSC1815GR*4	2SD468 2SB562 2SC1815GR 2SC1815BL 2SD438 2SK117BL 2SK117BL 2SA1038 2SA2229Y 2SC2229Y 2SC2229Y 2SC2229Y 2SC2229Y 2SC1815BL 2SC2235Y 2SA965Y 2SD1148 2SB863 2SC1815GR	
•	-DIODES-		•
D001,D004 D005,D006 D007,D008 D101 D102 D104 D601-D603 D701-D703	DIDIN5402***1 DID010V0W5**2 DIDIN4002***2 DIDIN4148***8 DID04V70W5**9 DIDIN4002***2 DIDIN4148***8 DID01N4148***8 DID022V0W5**7	1N4148 1N4148	
All resi	-CARBON RESIS	rors- + 5% tolerand	ce and 1/4W
R003,R004 R101,R102 R103 R104 R105 R201,R301	CBR03K30W4TJ4 CBR015K0W4TJ0 CBR047K0W4TJ6 CBR220R0W4TJ1 CBR0IM20W4TJ9 CBR022R0W4TJ8	, 15K ohm	

```
DESCRIPTION
                 PARTS NO.
REF. NO.
                                  56K ohm
                 CBR056K0W4TJ7
R202,R302
                                   1K ohm
                 CBR001K0W4TJ7
R206,R306
                                   1K ohm
                 CBR001K0W4TJ7
R209,R309
                                  68K ohm
                 CBR068K0W4TJ1
R210,R310
                                   100 ohm
                 CBR100R0W4TJ4
R211,R311
                                   56 ohm
                 CBR056R0W4TJ2
R213,R313
                                   150 ohm
                 CBR150R0W4TJ1
R214,R314
                                   2K2 ohm
                 CBR02K20W4TJ5
 R601,R701
                                   47K ohm
                 CBR047K0W4TJ6
 R602,R702
                                   33K ohm
                 CBR033K0W4TJ2
 R603,R703
                                   1K8 ohm
                  CBR01K80W4TJ1
 R604,R704
                                   3K3 ohm
                  CBR03K30W4TJ4
 R605, R705
                                   3K3 ohm
                  CBR03K30W4TJ4
 R606,R706
                                   150 ohm
                  CBR150R0W4TJ1
 R608, R708
                                   10K ohm
                  CBR010K0W4TJ8
 R609, R709
                                    150 ohm
                  CBR150R0W4TJ1
 R610, R710
                                    3K9 ohm
                  CBR03K90W4TJ6
                                    220 ohm
 R611, R711
                  CBR220R0W4TJ1
  R612,R712
                                    47K ohm
                  CBR047K0W4TJ6
  R613, R713
                                     1K ohm
                   CBR001K0W4TJ7
  R614, R714
                                     10 ohm
                   CBR010R0W4TJ3
  R616,R716
                                     10 ohm
                   CBR010R0W4TJ3
  R617,R717
                                    4K7 ohm
                   CBR04K70W4TJ4
  R620, R720
                                    22K ohm
                   CBR022K0W4TJ2
  R622,R722
                   CBR03K30W4TJ4
                                    3K3 ohm
                                     150 ohm
  R723
                   CBR150R0W4TJ1
  R624, R724
                                      1K ohm
                   CBR001K0W4TJ7
   R801-R806
                                     4K7 ohm
                   CBR04K70W4TJ4
   R807, R808
                                      1K ohm
                   CBR001K0W4TJ7
   R809, R810
                                     470 ohm
                   CBR470R0W4TJ1
   R815, R816
                                     68K ohm
                   CBR068K0W4TJ1
   R817-R821
        All resistors are rated \pm 5% tolerance and 1/4W F Tape
                                      10 ohm
                    CBR010R0W4FJ3
   R607,R702
                                     4K7 ohm
                    CBR04K70W4FJ4
   R811,R812
                                      68K ohm
                    CBR068K0W4FJ1
   R813,R814
                                     5% tolerance and 1/2W
         All resistors are rated +
                                      10K ohm
                    CBR010K0W2TJ6
    R005,R006
                                      1K5 ohm
                     CBR01K50W2TJ9
                                       1K ohm
    R008
                     CBR001K0W2TJ5
                                       1K ohm
                     CBR001K0W2TJ1
    R106
          All resistors are rated \pm 5% tolerance and 1/3W
                                      330 ohm
                     CBR330R0W3TJ2,
    . R615,R715
                     -ETAL FILM RESISTORS-
          All resistors are rated \pm 5% tolerance and 1/4W
                                       3K3 ohm
                     PMR03K30W4TG5
     R203,R303
```

```
DESCRIPTION
                PARTS NO.
                PMR01K50W4TG1
R204,R304
                                  1K5 ohm
                                  1K5 ohm
                PMR01K50W4TG1
R205, R305
                PMR033K0W4TG3
                                  33K ohm.
R207, R307
                PMR330K0W4TG9
                                 330K ohm
R208, R308
                          rate + 5% tolerance and 1W
     All resistors are
                                   1K ohm
R001, R002
                MTR001K01WTJ8
                MTR470R01WTJ2
                                  470 ohm
R107
                                   10 ohm
                MTR010R01WTJ4
R621, R721
                 -CEMENT-FILLED FIXED RESISTORS-
     All resistors are rate \pm 5% tolerance and 5W
                 CMROR3305WTE9
                                 0.33 ohm
R618, R718
                                 0.33 ohm
                 CMROR3305WTE9
R619, R719-
                 -CAPCITORS-
                                                    500V
                                 Ceramic
                                             0.01u
                 CRC0P0101KRZ1
C001
                                             6800u
                                                     50V
C003,C004
                                 Elec.
                 ELC06K8050R35
                                             220u
                                                     25V
                                 Elec.
                 ELC220U025R38
C005,C006
                                                     16V
                                             220u
                 ELC220U016R37
                                 Elec.
C007-C010
                                                     50V
                 ELC100U050R31
                                             100u
                                 Elec.
C011
                                                     50V KULR
                                             4.7u
                 ELC04U7050R54
                                 Elec.
C012
                                             220u ·
                                                     16V NP
                 ELC220U016R01
                                 Elec.
C101
                                                     10V
                                              33u
                 ELC033U010R38
                                 Elec.
C102
                                          0.022K
                                 Mylar
                 PECU022050RK3
C103
                                                     50V
                                             100P
                                  Ceramic .
                 CRC0100050RK5
C201,C301
                                                     50V
                                             330P
                                  Ceramic
C202,C302
                 CRC0330050RK1
                                             470u
                                                     16V
C203,C303
                 ELC470U016R37
                                  Elec.
                                                     50V
                                  Mylar
                                          0.002u
C204,C304
                 PEC2000050RJ5
                 PECU022500RK3
                                         0.0068u
                                                     50V
                                  Mylar
C205,C305
                                                      50V
                                            0.33u
                                  Elec.
                 ELC0U33050R55
C206,C306
                                              47u
                                                      16V
 C208,C308
                 ELC047U016R37
                                  Elec.
                                                      25V
                 ELC04U7025R35
                                             4.7u
                                  Elec.
 C601,C701
                 CRC0200500RK5
                                  Ceramic
                                             200P
                                                      50V
 C602,C702
                                                      16V
                                  Elec.
                                             220u.
                 ELC220U016R37
 C604, C704
                                              22P
                                                     500V
 C605,C705
                 CRC0022500RK0
                                  Ceramic
                                              15P
                                                     500V
                                  Ceramic
                 CRC0015500RK7
 C606,C706
                                                      50V
                                             100P
                                  Ceramic
                 CRC0100050RK5
 C607,C707
                                                      50V
                                             0.1u
                 PEC00U1050RK3
                                  Ceramic
 C608,C708
                                             100P
                                                      50V
                                  Ceramic
 C609,C709
                 CRC0100050RK5
                                                      50V
                                           0.022u
                 PECU022050RK3
                                  Mylar
 C610,C710
                                            0.47u
                                                      50V NP
                                  Elec.
                 ELC0U47050R09
 C611,C711
                                                     500V
                                              10P
                                 Ceramic
                 CRC0010500RK9
 C612,C712
                                             100P
                                                      25V
                                  Elec.
                 ELC100U025R30
 C713
                                                     500V
                                             330P
 C614,C714
                 CRC0330500RK4
                                  Ceramic
                                                      50V
                                  Ceramic
                                             100P
                 CRC0100050RK4
 C801-C804
                 ELC047U016R37
                                              47u
                                                      16V
                                  Elec.
 C805,C806
                                                      50V
                                  Ceramic
                                             100P
                 CRC0100050RK5
 C807-C810
```

REF. NO.	PARTS NO.	DESCRIPTION
	-VIRABLE RESIS	TORS-
TVR001,TVR701	TVR001K063HM1	60H 1K ohm
·	-COILS-	
L601,L701	CIL1851000186	18 1/2T
	-MISCELLANEOUS	;-
RY-101	RCKYK000904P2 CHAPC02023**5 CNT**514311P1 RLY24V5A2P2C1 SLSESA26142*4 SDY43SQ1119*8 FUHFH0003***1 RAPH*0043***3	2P RCA Jack Wafer Connector 11P Relay Slide Switch Pin 1x1x9 Fuse Holder
TONE AMP.PCB	ASSY T-A110(A2)	
REF. NO.	PARTS NO.	DESCRIPTION
		TONE AMP PCB ASSY TONE AMP PCB .
	-IC'S-	
IC501 IC502	ICCNJ02043D*2 ICCNJ04558DD6	
All resi	-CARBON RESIST stors are rated	TORS- + 5% tolerance and 1/4W
R401,R501 R402,R502 R403 R404 R405,R505 R406,R506 R407,R507 R408,R508 R409,R509 R411,R511 R412,R512 R413,R513 R415,R515	CBR001K0W4TJ7 CBR100K0W4TJ9 CBR010K0W4FJ8 CBR082K0W4FJ5 CBR012K0W4TJ7 CBR010K0W4TJ8 CBR012K0W4TJ7 CBR010K0W4TJ8 CBR04K70W4TJ4 CBR03K90W4TJ6 CBR220K0W4TJ6 CBR018K0W4TJ4 CBR03K30W4TJ4 CBR010K0W4TJ4 CBR010K0W4TJ8 CBR010K0W4TJ5	1K ohm 100K ohm 10K ohm F Type 82K ohm F Type 12K ohm 10K ohm 10K ohm 12K ohm 10K ohm 4K7 ohm 3K9 ohm 220K ohm 18K ohm 18K ohm 3K3 ohm 10K ohm

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TONE AMP PCB A	ASSY T-A110(B2)	
REF. NO.	PARTS NO.	DESCRIPTION
	PCBT*0A110B24 PCBT*0A110B24	TONE AMP PCB ASSY TONE AMP PCB
	-VARIABLE RESI	STIORS-
	RVR250K25MC20 RVR100K18AZ11	
SWITCH PCB ASS	SY S-A117(B2)	
REF. NO.	PARTS NO.	DESCRIPTION
	PCBS*0A117B24 PCBS*0A117B24	SWIITCH PCB ASSY SWITCH PCB
	-MTEAL FILMM R	ESISTORS-
R108,R109	MTR330R01WTJ4 PHSSUF21CE115	
FUNCTION SWITC	CH PCB ASSY S-A1	17(A2)
'REF. NO.	PARTS NO.	DESCRIPTION
		FUNCTION SWITCH PCB ASSY FUNCTION SWITCH PCB
All resis	-CARBON RESIST stors are rateed	ORS- + 5% tolerance and 1/4W
R901 R902	CBR010K0W4TJ8 CBR047R0W4TJ8	
	-MISCELLANEOUS	<del>-</del>
	PHSSUF51AE185 CNT**549408P7 PRL17002405P7, PRL17002605P7 SDY43SO1119*8	Wafer Connector 8P Connector 5Px130 Connector 6Px170
FUNCTION LED F	PCB ASSY L-A113(	A2)
REF. NO.	PARTS NO.	DESCRIPTION
D-901-D906	PCBL*0A113A26 LED050020GS*7 PRL11002403P4	FUNCTION LED PCB ASSY FUNCTION LED PCB LED 2x5 Green Connector 3Px110 Connector 5Px110 Washer

POWER 1	LED.	PCB	ASSY	L-A1	13(B2)
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REF. NO. PARTS NO.

DESCRIPTION

PCBL\*0A113B26 POWER LED PCB ASSY

PCBL\*0A113B26 POWER LED PCB

-MISCELLANEOUS-

LED050020RS\*7 LED 2x5 Red GSKKB0194B\*5\* Washer

SCECT2606YC\*4 Screw CRTS 2.6x6

#### POWER SWITCH PCB ASSY

REF. NO.

PARTS NO. DESCRIPTION

POWER SWITCH PCB ASSY POWER SWITCH PCB

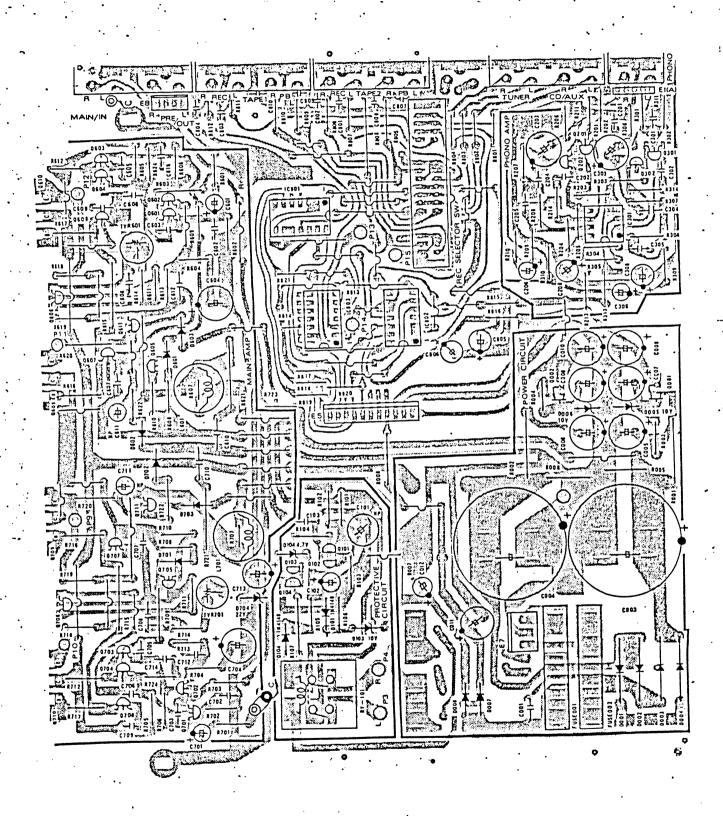
\_\_\_\_\_\_

-MISCELLANEOUS-

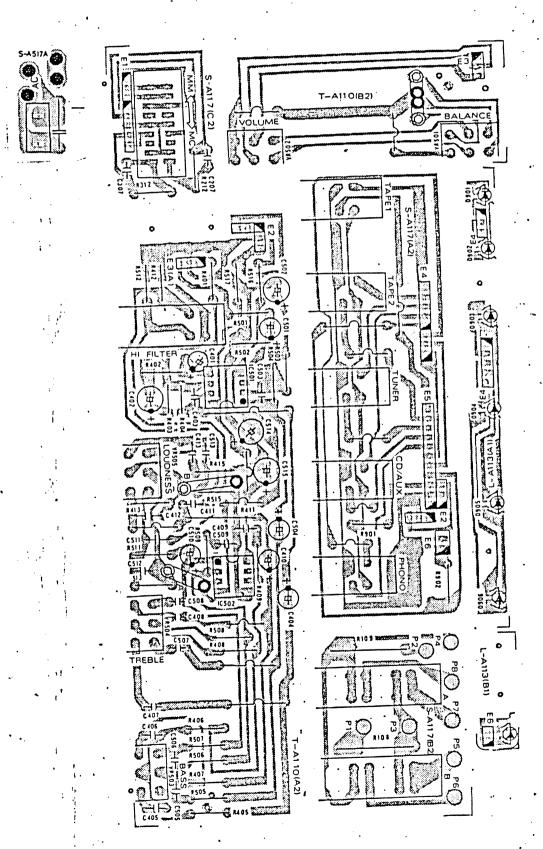
CRCOP0101KRZ1 Ceramic 0.01u 1000V

PWSESB82131\*1 Power Switch

SCECT2606YC\*4 Screw CRTS 2.6x6



TONE AMP PCB T-A110(A2,B2)
FUNCTION SWITCH PCB S-A117(A2)
SWITCH PCB S-A117(B2,C2)
FUNCTION LED PCB L-A113(A1)
POWER LED PCB L-A113(B1)
POWER SWITCH PCB S-A517A



## A-X55

#### EIA

Power Output\*55 watts per channel minimum RMS, both channels driven at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.05 % total harmonic distortion Both Channels Driven into 8 ohms at 1 kHz 145 W + 145 W Dynamic Power Output into 4 ohms 110 W + 110 W Total Harmonic Distortion (20 Hz to 20,000 Hz) AUX input to SPEAKER output 0.05 % at rated power into 8 ohms aping Factor 50; at 50-Hz Transient Response Rise Time 1.2 µs Rise Time 1.2 µs
Frequency Response 5 Hz to 40 kHz  $_{-3}^{0}$  dB Speaker Impedance Accept 8 ohms to 16 ohms Input Sensitivity/Impecande Phono MM 2.7 mV/47 k ohms Phono MC 0.24 mV/95 ohms Tuner, CD/AUX, Tape 1/2 120 mV/ 47 k ohms Signal-to-Noise Ratio (IEC-A) Phono MM 75 dB for 2.7 mV input Phone MC 65 dB for 0.24 mV input Tuner, CD/AUX, Tape 1/2 94 dB Maximum Input Level for Phono MM 100 mV (RMS), T.H.D 0.05 % at 1 kHz MC 4 mV (RMS), T.H.D. 0.05 % at 1 kHz Output Level/Impedance Tape Rec 1/2 90 mV/100 k ohms Pre Out 1000 mV/47 k ohms Trequency Response for Phono RIAA standard cure ±0.5 dB (20 Hz to 20,000 Hz) Tone Control Bass ±12 dB at 100 Hz Treble ±12 dB at 10,000 Hz Loudness Control -2.5/-6/-9 dB at 100 Hz/10 kHz/1 kHz High 10 kHz, -6 dB [General]

Power Requirements 110/220V AC, 50/60 Hz, 240 W (General Export) 120 V AC, 60 Hz, 220 W (USA/Canada) 220 V AC, 50 Hz, 240 W (Europe) 240 V AC, 50 Hz, 240 W (UK/Australia) Dimensions (W x H x D) 435 x 80 x 295 mm (17-1/8" x 3-3/16" x 11-5/8") Weight (net) 7.6 kg (16.72 lbs.)

Puissance de sortie\* 55 W minimum RMS par canal, les deux canaux sous 8 ohms de 20 Hz à 20.000 Hz avec pas plus de 0,05 % de distorsion harmonique totale. Les deux canaux sous 8 ohms à 1 kHz 145 W + 145 W Puissance dynamique sous 4 ohms 110 W + 110 W Distorsion harmonique totale (20 Hz à 20.000 Hz) De l'entrée AUX à la sortie SPEAKER 0,05 % à puissance nominale sous 8 ohms Coefficient d'amortissement 50, à 50 Hz Réponse transitoire Temps de montrée 1,2 μs Réponse en fréquence 5 Hz à 40 kHz 2 dB Impédance des haut-parleurs 8 à 16 ohms Sensibilité d'entrée/Impédance Phono MM 2,7 mV/47 kohms Phono MC 0,24 mV/95 ohms Tuner, CD/AUX, Tape 1/2 120 mV/ 47 kohms Rapport signal/bruit (IEC-A) Phono MM 75 dB pour 2,7 mV en entrée Phono MC 65 dB pour 0,24 mV en entrée Tuner, CD/AUX, Tape 1/2 94 dB Niveau d'entrée maximal pour phono MM 100 mV (RMS), DHT 0,05 % à 1 kHz MC 4 mV (RMS), DHT 0,05 % à 1 kHz Niveau de sortie/impédance Tape Rec 1/2 90 mV/100 kohms Sortie préampli 1000 mV/47 kohms Réponse en fréquence pour phono Courbe standard RIAA ±0,5 dB (20 Hz à 20.000 Hz) Commande de tonalité Graves ±10 dB à 100 Hz Aigus ±12 dB à 10.000 Hz Commande de contour -2,5/-6/-9 dB à 100 Hz/10 kHz/1 kHz Filtre Haut 10 kHz, -6 dB [Générales] Alimentation 110/220 V CA, 50/60 Hz,

240 W (Exportation générale) 120 V CA, 60 Hz, 220 W (Etats-Unis/Canada) 220 V CA, 50 Hz, 240 W (Europe) 240 V CA, 50 Hz, 240 W (Royaume-Uni/Australie) Dimensions (L x H x P) 435 x 80 x 295 mm Poids (net) 7,6 kg

Nennausgangsleistung \* 55 Watt pro kanal min. eff., beide Kanäle an 8 Ohm von 20 Hz bis 20.000 Hz, bei max. 0.05 % Klirrfaktor

Beide Kanäle ean 8 Ohm bei 1 kHz 145 W + 145 W

Musikleistung an 4 0hm 110 W + 110 W

Klirrfaktor (20 Hz bis 20.000 Hz) AUX-Eingang zu Lautsprecherausgang 0,05 % bei Nennleistung an 8 Ohm

Dämpfungsfaktor 50, bei 50 Hz

Einschwigverhalten

Anstiegszeit 1,2 µs Frequenzgang 5 Hz bis 40 kHz 0/-3 dB Lautsprecherimpendans 8 bis 16 Ohm

Eingangsempfindlichkeit/-impedanz Phono MM 2,7 mV/47 kOhm Phono MC 0.24 mV/95 0hm Tuner, CD/AUX, Tape 1/2 120 mV/

47 k0hm

Signal/Rauschabstand (IEC-A) Phono MM 75 dB für 2,7 mV Eingang Phono MC 65 dB für 0,24 mV Eingang Tuner, CD/AUX, Tape 1/2 94 dB

Max. Phono-Eingangspegel

MM 100 mV (eff.), 0,05 % Klirrfaktor bei 1 kHz

MC 4 mV (eff.), 0,05 % Klirrfaktor bei 1 kHz

Ausgangspegel/-impedanz Tape Rec 1/2 90 mV/100 kOhm Pre Out 1.000 mV/47 kOhm

Frequenzgang für Phono RIAA-Standardkurve +/- 0,5 dB (20 hz bis 20.000 Hz)

Klangregelung

Bass +/-12 dB bei 100 Hz Treble +/-12 dB bei 10.000 Hz

Loudness-Regelung

-2,5/-6/-9 dB bei 100 Hz/10 kHz/1 kHz

High 10 kHz, -6 dB

#### [Allgemein]

Spannungsversorgung 110/220 V Wechselstrom, 50/60 Hz, 240 W (Allgemeines Exportmodell) 120 V Wechselstrom, 60 Hz, 220 W (USA/Kanada) 220 V Wechselstrom, 50 Hz, 240 W (Europa) 240 V Wechselstrom, 50 Hz, 240 W (Großbritannien/Australien)

Abmessunen (B x H x T)435 x 80 x 295 mm Gewicht (netto) 7,6 kg

- Measured pursuant to Federal Trade Commission's Trade Regulation rule on Power Output Claim for Amplifier in U.S.A.
- Mesure conforme à la réglementation de la commission fédérale du commerce (FTC) pour la définition de la puissance de sortie des amplificateurs aux Etats-Unis.

#### IEC

#### [Power Amplifier Section]

Rated Power Output
8 ohms at 20 Hz to 20,000 Hz
no more than 0.05 % THD (FTC)
55 W + 55 W
4 ohms at 63 Hz to 12,500 Hz
no more than 0.7-%-THD-(IEC/NF)
65 W + 65 W
Total Harmonic Distortion
Rated Power Output into 8 ohms
0.05 %

Frequency Response

5 Hz - 40 kHz 0 dB

S/N Weighted: Rated Output Power (IEC-A)
( ) = Unweighted\_at.50 mW (DIN)
Phono MM 75 dB (71 dB)
Phono MC 65 dB (55 dB)
Tuner, CD/AUX, Tape 1/2 94 dB (82 dB)
Damping Factor at 8 ohms, 50 Hz 50
Transient Response
Rise Time 1.2 \(muser \text{S}\)

Input Sensitivity/Impedance
Phono MM 2.7 mV/47 k ohms
Phono MC 0.24 mV/95 ohms
Tuner, CD/AUX, Tape 1/2 120 mV/
47 k ohms

Tone Control
Bass 100 Hz, ±12 dB
Treble 10,000 Hz, ±12 dB
Loudness Control (-30 dB) -2.5/-6/-9 dB
at 100 Hz/10 kHz/1 kHz

High 10 kHz, -6 dB

[General]

Power Consumption
IEC 240 W
Dimensions (W x H x D) 435 x 80 x 295 mm
Weight (net) 7.6 kg

[Partie amplificateur de puissance]

Puissance de sortie nominale 8 ohms de 20 Hz à 20.000 Hz pas plus de 0,05 % de DHT (FTC) 55 W + 55 W 4 ohms de 63 Hz à 12.500 Hz pas plus de 0,7 % de DHT (IEC/NF) 65 W + 65 W

Distorsion harmonique totale
Puissance de sortie nominale sous
8 ohms 0,05 %

Réponse en fréquence  $5 \text{ Hz} - 40 \text{ kHz} \quad \begin{array}{c} 0 \\ -3 \\ \end{array} \text{dB}$ S/B pondéré: puissance de sortie nominale

(IEC-A) ( ) = Non pondéré à 50 mW (DIN) Phono MM 75 dB (71 dB)

Phono MC 65 dB (55 dB)
Tuner, CD/AUX, Tape 1/2 94 dB (82 dB)

Coefficient d'amortissement sous 8 ohms, 50 Hz 50

Réponse transitoire
Temps de montée 1,2 μs
Sensibilité d'entrée/Impédance
Phono MM 2,7 mV/47 kohms
Phono MC 0,24 mV/95 ohms
Tuner, CD/AUX, Tape 1/2 120 mV/
47 kohms

Commande de tonalité Graves 100 Hz, ± 12 dB Aigus 10.000 Hz, ± 12 dB

Commande de contour (-30 dB) -2,5/-6/-9 dB à 100 Hz/10 kHz/1 kHz

Filter Haut 10 kHz, -6 dB

[Générales]

Consommation (IEC) 240 W Dimensions (L x H x P) 435 x 80 x 295 mm Poids (net) 7,6 kg [Leistungsverstärkerteil]

Nennausgangsleistung
8 Ohm bei 20 Hz bis 20.000 Hz
max. 0,05 % Klirfaktor (FTC)
55 W + 55 W
4 Ohm bei 63 Hz bis 12.500 Hz
max. 0,7 % Klirrfaktor (IEC/NF)

max. 0,7 % Klirrfaktor (IEC/NI 65 W + 65 W Klirrfaktor

Gewichtete Ausgangsleistung an 8 Ohm 0,05 % Frequenzgang 5 Hz — 40 kHz 0/-3 dB

Signal/Rauschabstand Gewichtet: Nenn-Ausgangsleistung (IEC-A) = Ungewichtet bei 50 mW (DIN) Phono MM 75 dB (71 dB)

Phono MM 75 dB (71 dB)
Phono MC 65 dB (55 dB)
Tuner CD/AUX tape 1/2

Tuner, CD/AUX, tape 1/2 94 dB (82 dB) Dämpfungsfaktor bei 8 Ohm, 50 Hz 50

Ansprechverhalten
Anstiegszeit 1,2 μs
Eingangsempfindlichkeit/-impedanz
Phono MM 2,7 mV/47 kOhm
Phono MC 0,24 mV/95 0hm

Tuner, CD/AUX, Tape 1/2 120 mV/

Klangregelung
Bass +/-12 dB bei 100 Hz
Treble +/-12 dB bei 10.000 Hz
Loudness-Regelung (bei -30 dB
Lautstärkepegel) -2,5/-6/-9 dB bei

100 Hz/10 kHz/1 kHz

High 10 kHz, -6 dB

[Allgemein]

Leistungsaufnahme 240 W Abmessungen (B x H x T) 435 x 80 x 295 mm Gewicht (netto) 7,6 kg

